

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A radiation image read-out apparatus ~~which~~ comprises comprising a condenser optical system which converges stimulated emission emitted from a radiation image convertor panel upon exposure to stimulating light, a photodetector which receives the stimulated emission converged by the condenser optical system for photoelectric conversion and has a sensitivity to light longer in wavelength than the stimulating light and a stimulating light cut filter which is disposed in the optical path of the stimulated emission between the photodetector and the radiation image convertor panel to transmit the stimulated emission and to cut the stimulating light, and reads out a radiation image recorded on the radiation image convertor panel, wherein the improvement comprises ~~that~~:

a longer wavelength light cut filter which transmits the stimulated emission and attenuates the intensity of light components longer in wavelength than the stimulating light is provided in the optical path of the stimulated emission between the photodetector and the radiation image convertor panel,

wherein the stimulating light cut filter and the longer wavelength cut filter are physically separately disposed.

2. (original): A radiation image read-out apparatus as defined in Claim 1 in which the longer wavelength light cut filter is disposed between the condenser optical system and the photodetector.

3. (original): A radiation image read-out apparatus as defined in Claim 1 in which the longer wavelength light cut filter attenuates the intensity of the light components in the range not shorter than 800 nm and not longer 900 nm in wavelength to not higher than 1/100.

4. (currently amended): A radiation image read-out apparatus comprising a condenser optical system which converges stimulated emission emitted from a radiation image convertor panel upon exposure to stimulating light, a photodetector which receives the stimulated emission converged by the condenser optical system for photoelectric conversion and has a sensitivity to light longer in wavelength than the stimulating light, and a stimulating light cut filter which is disposed in the optical path of the stimulated emission between the photodetector and the radiation image convertor panel to transmit the stimulated emission and to cut the stimulating light and read out a radiation image recorded on the radiation image convertor panel, wherein the improvement comprises:

a longer wavelength light cut filter which transmits the stimulated emission and attenuates intensity of light components longer in wavelength than the stimulating light provided in the optical path of the stimulated emission between the photodetector and the radiation image convertor panel; and

~~A radiation image read-out apparatus as defined in Claim 1 further comprising a~~
correction means which subtracts an image signal component which represents a light
component longer in wavelength than the stimulating light passing through the longer
wavelength light cut filter and is included in an image signal obtained by photoelectric
conversion of the stimulated emission by the photodetector from the image signal, thereby
correcting the image signal.

5. (original): A radiation image convertor panel which emits stimulated emission upon
exposure to stimulating light, wherein the improvement comprises that

a longer wavelength light cut filter which transmits the stimulating light and the
stimulated emission and attenuates the intensity of the light components longer in wavelength
than the stimulating light is provided on the side of the radiation image convertor panel from
which the stimulated emission emitted from the radiation image convertor panel is detected.

6. (original): A radiation image convertor panel as defined in Claim 5 in which the longer
wavelength light cut filter attenuates the intensity of the light components in the range not
shorter than 800 nm and not longer 900 nm in wavelength to not higher than 1/100.

7. (canceled).

8. (previously presented): The radiation image convertor panel of claim 5, further
comprising a stimulating light cut filter disposed in the optical path of the stimulated emission to

AMENDMENT UNDER 37 C.F.R. § 1.116
EXPEDITED PROCEDURE
GROUP 2884

Atty. Docket No.: Q78532

transmit the stimulated emission and to cut the stimulating light, wherein the stimulating light cut filter and the longer wavelength cut filter are physically separately disposed.